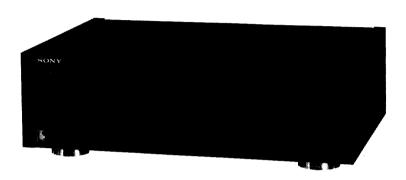
TAINSSES

SERVICE MANUAL



US Model Canadian Model AEP Model UK Model

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 4 ohm loads, both channels driven, from 20 - 20,000 Hz; rated 150 watts per channel minimum RMS power, with no more than 0.01 % total harmonic distortion from 250 milliwatts to rated output.

With 8 ohm loads, both channels driven, from 20 - 20,000 Hz; rated 110 watts per channel minimum RMS power, with no more than 0.05 % total harmonic distortion from 250 miliwatts to rated output.

Other specifications

Item	Condition	Model except for North Europe	Model for North Europe
Continuous RMS power output(both channels	4 ohms 20 Hz - 20 kHz, THD 0.01 %	150 W + 150 W (DIN: 160 W + 160 W)	_
driven simultaneously)	6 ohms 20 Hz - 20 kHz, THD 0.03 %	\ -	100 W + 100 W (DIN: 120 W + 120 W)
	8 ohms 20 Hz - 20 kHz, THD 0.05 %		80 W + 80 W (DIN: 110 W + 110 W)
	8 ohms monaural, THD 0.05 %	300 W (DIN: 350 W)	_
	12 ohms monaural, THD 0.05 %	_	200 W (DIN: 235 W)

— continued on next page —





					
Dynamic power	1 ohm stereo (monaural)	450 W (—)	450 W (—)		
	2 ohms stereo (monaural)	400 W (750 W)	325 W (625 W)		
	4 ohms stereo (monaural)	290 W (680 W)	220 W (450 W)		
	8 ohms stereo (monaural)	150 W (500 W)	125 W (370 W)		
Power bandwidth	4 ohms, THD 0.05 %	5 Hz - 50 kHz at 75W	_		
(IHF)	8 ohms, THD 0.05 %	5 Hz - 50 kHz	at 55 W		
Dynamic headroom	4 ohms	2.8 dB	_		
('78 IHF)	8 ohms	1.8	dB		
Total harmonic distortion	4 ohms, at 10 watt output	0.008 %	_		
	6 ohms, at 10 watt output	0.006 %			
	8 ohms, at 10 watt output	0.00	04 %		
Intermodulation (IM) distortion	4 ohms, at rated output	0.008%			
60 Hz:7 kHz = 4:1	6 ohms, at rated output	0.00	06%		
	8 ohms, at rated output	0.00)4%		
Damping factor	8 ohms, 1 kHz	100			
Slew rate	_	120 V/μsec, 250 V/μsec (i	nside)		
Residual noise	network A	Less than 90	μV		
Frequency response	INPUT	5 Hz - 200 kHz +0 kHz -3	5 Hz - 100 kHz ⁺⁰ ₋₃ dB		
Input sensitivity	INPUT	180 mV, 20 k	ohms		
S/N (network) '78 IHF	INPUT	120 dB (A)			

General

Super legato linear, purecomplementary SEPP System

power amplifier, powerful power supply

Power requirements

US, Canadion model: 120 V AC, 60 Hz AEP, WG model: 220 V AC, 50/60 Hz UK model:

240 V AC, 50 Hz

Power consumption

US model: 280 watts Canadian model: 580 VA UK model: 760 watts AEP model: 190 watts WG model: 310 watts

UK model: Dimensions

Approx. $430 \times 150 \times 365 \text{ mm} (w/h/d)$

 $(16^{7}/_{8} \times 5^{7}/_{8} \times 14^{3}/_{8} \text{ inches})$

Except for UK model:
Approx. 467 x 150 x 365 mm (w/h/d)

 $(18^{3}/_{8} \times 5^{7}/_{8} \times 14^{3}/_{8} \text{ inches})$

Weight UK model:

Approx. 11.2 kg (24 lb. 12 oz.), net

Except for UK model:

Approx. 12.2 kg (26 lb. 14 oz.), net

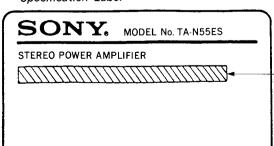
Supplied accesssories

Screws (8) (except for UK model)

Design and specifications subject to change without notice.

MODEL IDENTIFICATION

— Specification Label —



US model: AC 120V 60Hz

280W 580VA

Canadian model: AC 120V 60Hz

AEP, WG (West Germany) model: AC 220V~50/60Hz

UK model: AC 240V~50/60Hz

SERVICING NOTES

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

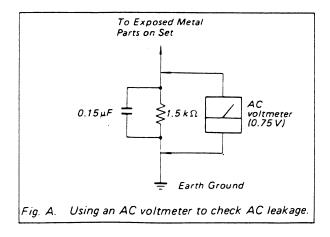
After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

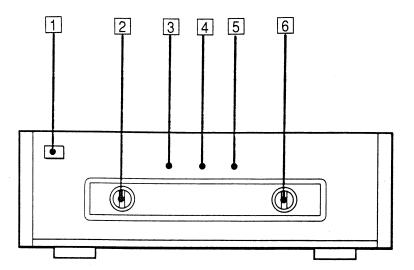
LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- 2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)



SECTION 1 GENERAL



1 POWER switch

2 SPEAKERS selector

Selects speaker system A, B or both (A+B). For headphone monitoring on the connected preamplifier, set the selector to OFF.

3 PROTECTION indicator

Lights up for approximately 4 seconds immediately after turning on the unit. This indicates that the built-in muting circuit is activated.

In normal operating conditions, this does not light. If it lights up (speaker sound is not heard) while operating, an abnormality has occurred. In this case, disconnect the AC power cord and check the connected components and speaker systems.

4 STEREO indicator

Lights up when OPERATION is set to STEREO.

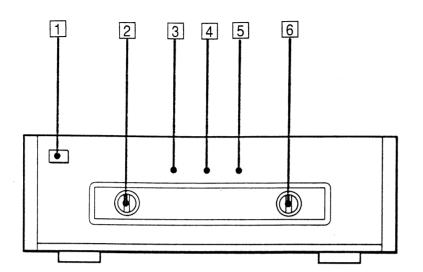
5 MONO indicator

Lights up when OPERATION is set to MONO.

6 ATTENUATOR

Control input signal sound level from the preamplifier. Normally, set it to the click-in center position.

three



1 POWER switch

2 SPEAKERS selector

Selects speaker system A, B or both (A+B). For headphone monitoring on the connected preamplifier, set the selector to OFF.

3 PROTECTION indicator

Lights up for approximately 4 seconds immediately after turning on the unit. This indicates that the built-in muting circuit is activated.

In normal operating conditions, this does not light. If it lights up (speaker sound is not heard) while operating, an abnormality has occurred. In this case, disconnect the AC power cord and check the connected components and speaker systems.

4 STEREO indicator

Lights up when OPERATION is set to STEREO.

5 MONO indicator

Lights up when OPERATION is set to MONO.

6 ATTENUATOR

Control input signal sound level from the preamplifier. Normally, set it to the click-in center position.

SECTION 2 ELECTRICAL ADJUSTMENTS

PRECAUTIONS

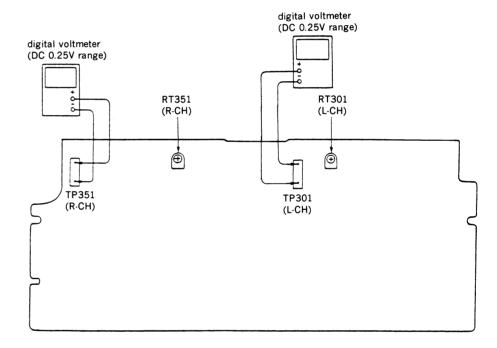
- 1. Adjust the idling after tuning the unit on for about 10-15 minutes, giving it time to warm up.
- 2. Always make sure to adjust the idling when repairing the power amp section or when replacing any parts.

[IDLING ADJUSTMENT]

Procedure:

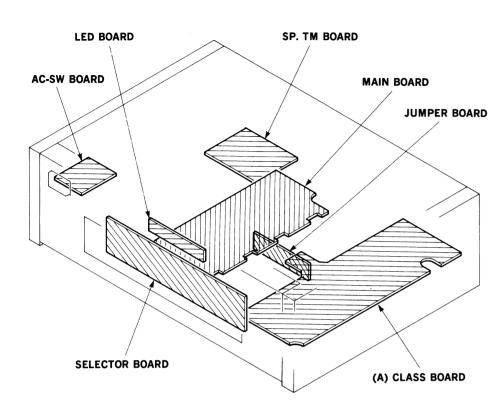
Set the ATTENUATOR control as low as possible and adjust RT301 (L-CH) and RT351 (R-CH) so that the voltmeter reads 7mV at TP301 (L-CH) and TP351 (R-CH).

Adjustment Location: power board



SECTION 3 DIAGRAMS

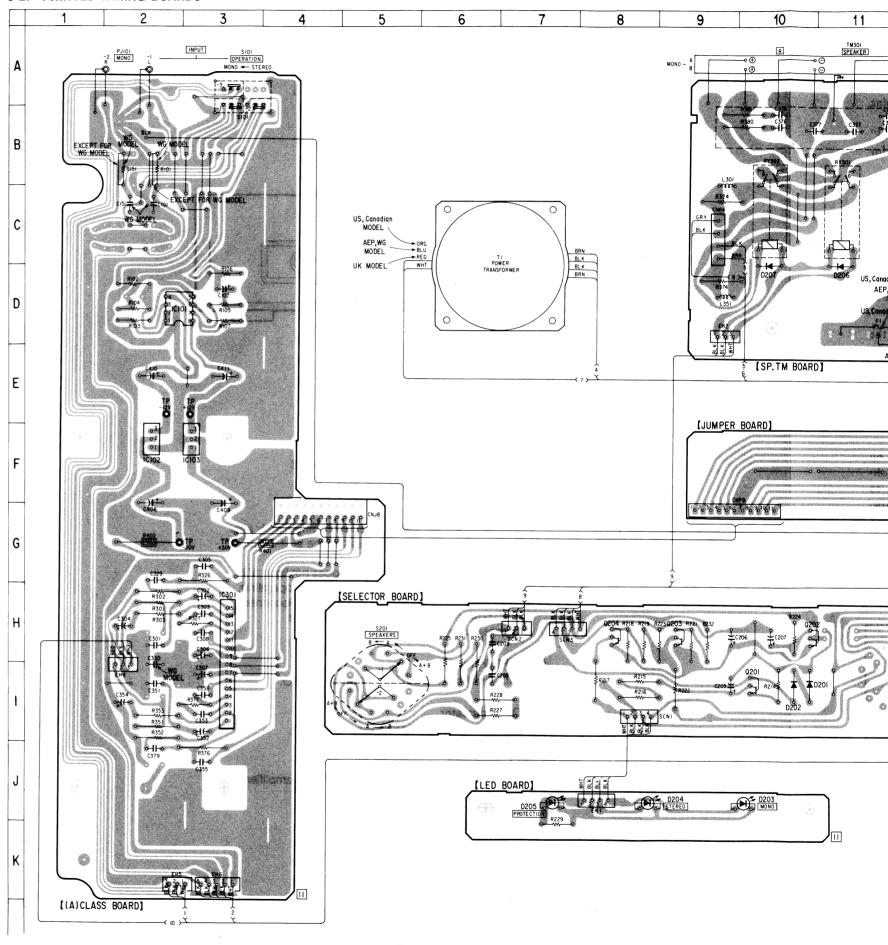
3-1. CIRCUIT BOARDS LOCATION



• Semiconductor Location

Ref. No.	Location	
D201 D202 D203 D204 D205 D206 D207 D301 D302 D303 D304 D305 D306 D307 D308 D309 D311 D312 D313 D314 D362 D363	I-10 I-10 J-10 J-8 J-7 C-11 C-10 E-18 F-19 G-19 G-18 C-18 G-18 G-18 G-18 G-18 G-18 G-18 G-18 G	
D364 IC101 IC102 IC103 IC301 IC302	C-16 D-15 D-2 F-2 F-3 H-3	
Q201 Q202 Q203 Q204 Q301 Q302 Q303 Q304 Q305 Q306 Q351 Q352 Q353 Q354 Q355 Q356	I-10 H-10 H-9 H-8 I-15 I-16 I-16 J-15 H-15 J-16 D-15 D-16 C-15 E-16 C-15	

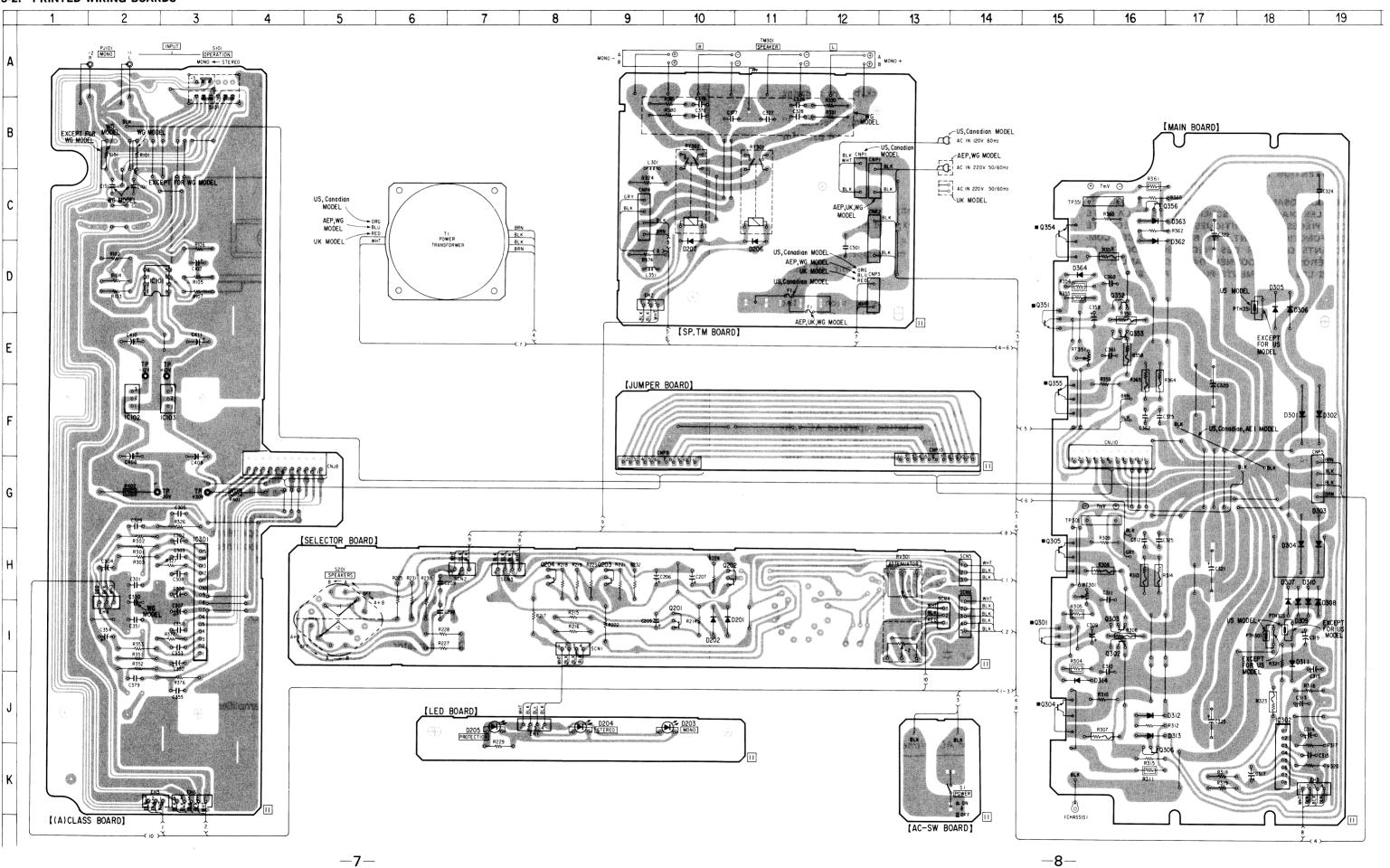
3-2. PRINTED WIRING BOARDS



Note:

- o- : parts extracted from the component side.
- parts mounted on the conductor side.

3-2. PRINTED WIRING BOARDS



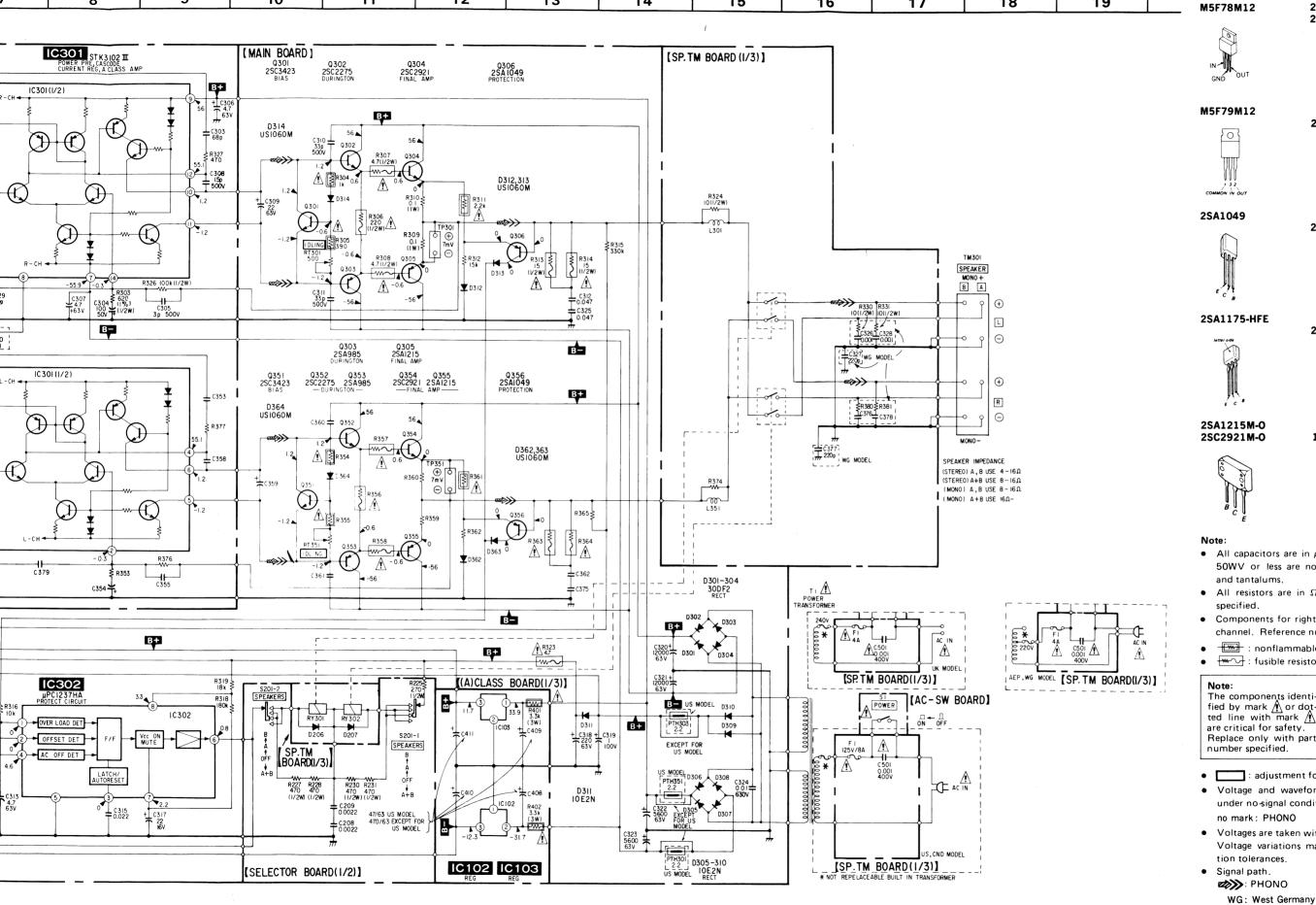
Q20I 2SD774 CURRENT REG

D201,202 US1060M

[SELECTOR BOARD(1/2)]

IC102 IC103

* NOT REPELACE

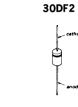


• SEMICONDUCTOR LEAD LAYOUTS

2SA985A-P 2SC2275-P

10E2N





2SC945-P



SEL2210S

SEL2510C







155120

- All capacitors are in μF unless otherwise noted, pF: μμF 50WV or less are not indicated except for electrolytics and tantalums
- All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise

Note:

- Components for right channel have same values as for left channel. Reference numbers are coded from 300.
- : nonflammable resistor.
- fusible resistor.

The components identified by mark n or dotted line with mark 1 are critical for safety. Replace only with part

Les composants identifiés par une marque \(\frac{1}{2} \) sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spéci-

- adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input Impedance 10M Ω). Voltage variations may be noted due to normal produc-

: PHONO

CND: Canadian

8

10

11

12

13

14

15

16

18

17

19

SECTION 4 EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be dif-ferent from the parts specified in the components used on the set.
- Color Indication of Appearance Parts Example: (RED) ... KNOB, BALANCE (WHITE) Cabinet's Color Parts' Color

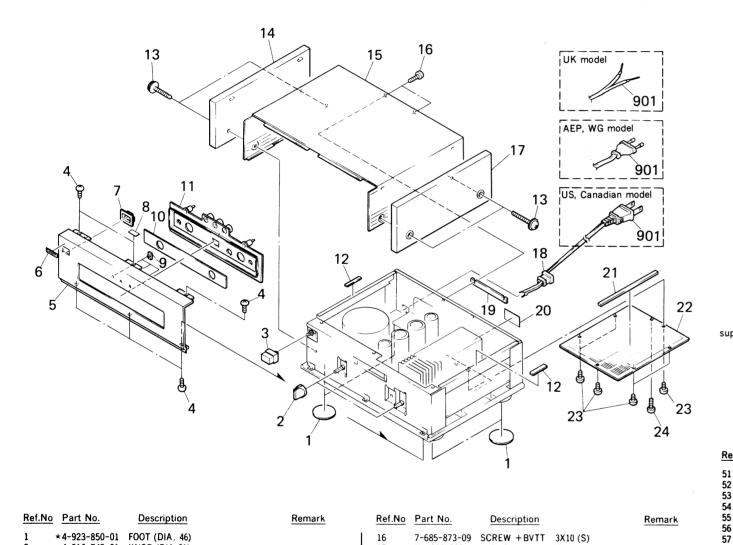
The components identified by mark \(\frac{\Lambda}{\Lambda} \) or dotted line with mark \(\frac{\Lambda}{\Lambda} \) are critical for safety.

Replace only with part number

Les composants identifiés par une marque 🐧 sont critiques pour la Ne les remplacer que par une pièce portant le numéro spécifé.

WG: West Germany

4-1. CABINET SECTION

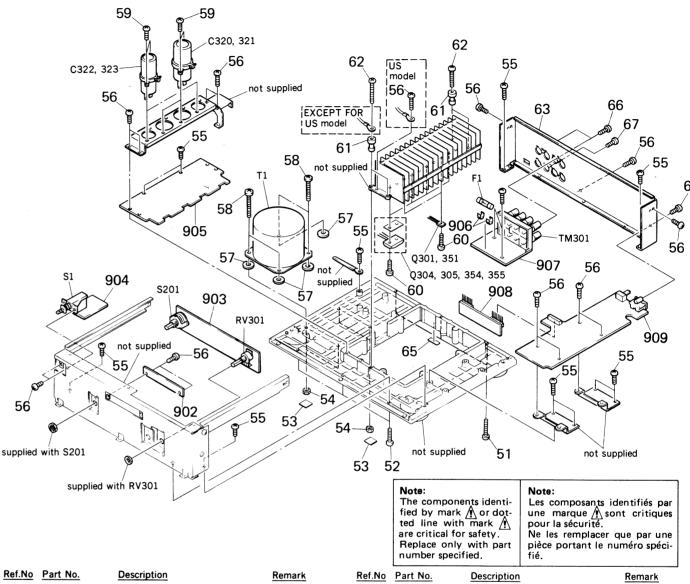


Ref.No	Part No.	Description	Remark	Ref.No	Part No.	Description	Remark
1 2 3 4 5 5 6 7 8 9 10 11 12 13 13 14	*4-923-850-01 4-916-745-01 4-917-460-01 7-682-547-09 4-933-018-11 4-933-018-21 4-908-884-01 4-908-884-01 4-908-044-11 *3-846-067-21 4-884-612-11 4-933-013-11 4-933-014-01 *2-527-517-00 4-885-979-21 4-889-321-11 X-4933-001-1	FOOT (DIA. 46) KNOB (DIA.21) KNOB, POWER SCREW +BVTT 3X6 (S) (US, Canadian)PANEL, FRONT (AEP, UK, WG)PANEL, FRONT EMBLEM, SONY ESCUTCHEON, POWER KNOB (UK)SPACER (C) INDICATOR, EJECT PLATE (AL), ORNAMENTAL ESCUTCHEON (UK)CUSHION, CASE RETAINER (US, Canadian, AEP, WG)SCREW (UK)SCREW (US, Canadian, AEP)PLATE (LEFT	(4X28)	16 17 17 18 19 20 20 20 20 20 20 21 22 22 23 24	7-685-873-09 X-4933-002-1 X-4933-004-1 *3-703-244-00 *4-929-232-01 *4-933-007-01 *4-933-008-01 *4-933-009-01 *4-933-011-01 *4-916-782-21 *4-916-782-21 *4-916-782-01 7-685-647-79 7-685-874-09	SCREW + BVTT 3X10 (S) (US, Canadian, AEP)PI (WG)PLATE (RIGHT) A BUSHING (2104), CORD SPACER (US)LABEL, MODEL N (Canadian)LABEL, MODEL N (AE2)LABEL, MODEL N (WG)LABEL, MODEL N (WG)LABEL, MODEL N (UK)LABEL, MODEL N (UK)LABEL, MODEL N	LATE (RIGHT) ASSY, SIDE SSY, SIDE UMBER (U) DEL NUMBER (CA) NUMBER (AE1) NUMBER (AE2) IUMBER (AE4) UMBER (UK)
14 15 15		(WG)PLATE (LEFT) ASSY, SIDE (EXCEPT FOR AE2)CASE (AE2)CASE	 		_	(UK)CORD, POWER (AEP, WG)CORD, POW	VER

4-2. SHASSIS SECTION

66 67 67

902 903



f.No	Part No.	Description	Rem	nark	Ref.No	Part No.	Description		Remark
	7-685-873-09		3X16 (S) 3X10 (S)		905	* A-4333-770-A	(US)MOUNTED P (Canadian)MOUN	TED PCB, MÁIN	(B)
	*4-929-266-01 7-684-024-04			1			(WG)MOUNTED F		
		SCREW +BVTP	3X10 TYPE2 SLIT				(UK)MOUNTED P (AEP)MOUNTED		
		SCREW +BVTT	3X6 (S)		906	* 1 - 533-183-11	(AEP, UK, WG)H	IOLDER, FUSE	
	4-885-984-21	WASHER SCREW +B 4X20					(US, Canadian)H	OLDER, FUSE	
		SCREW +BVTT					PC BOARD, SP.TM PC BOARD, JUMPER	,	
	7-685-648-79	SCREW +BVTP					PC BOARD, (A) CLAS		
		(US)COLLAR	I D AVAC TVDCA CLIT		C320		ELECT	,	6 63V
			+P 3X25 TYPE2 SLIT)SCREW +BVTP 3X1		C321 C322	1-125-568-11 1-125-569-11	ELECT	12000MF 209 5600MF 209	
			SLIT		C323		ELECT		6 63V
			2)PANEL, BACK				(AEP, UK, WG)F		
		(AE2)PANEL, SCREW, TAPPIN					(US, Canadian)FL SWITCH, PUSH (AC		
	*4-703-079-21	(UK)LABEL,	CAUTION (BACK)		_	_	(AEP, WG)TRANS		
		SCREW +BVTP					(UK)TRANSFORM		
		(WG)SCREW,	S)SCREW +BVTP 3X1	0 TYPE 2			(US, Canadian)TF (US, Canadian, AE1,		
			N-S		1141501	1 337 240 11	(OS, Canadian, ALI,	(SPEAK	
?		PC BOARD, LED	CTOD				(WG)TERMINAL E		
1		PC BOARD, SELE PC BOARD, AC-S		1	1 M301	1-537-246-31	(AE2)TERMINAL	BUARD (SPEAKE	:R)
				,					

- Due to st list may the diagra
- Items ma are seldo delay sho items.
- If there such as circuit pa resistors

Ref.No Part 901 901 901 902 903 ⚠. 1-55 ♠. 1-57 ♠. 1-57 ★ 1-63 904 905 905 905 905 * 1-63 * A-43 * A-43 * A-43 905 906 906 907 908 * A-43 * 1-53 * 1-53

C101 1-10 C102 C151 C205 C207 C208 C209 C301 1-12 1-13 1-13

909

*** 1-63**

***1-63**

***1-63**

C303 C304 C305 C306 C307 1-10 1-12 1-10 1-12 1-12

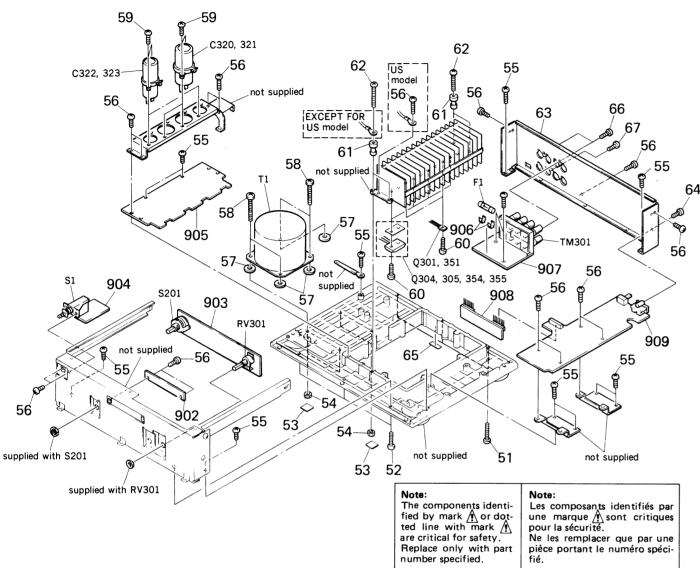
C308 C309 C310 1-10 1-12 1-10 C311 C312

C313 C314 C315 C317 1-12 1-12 1-13 1-12 1-12 C318

C319 C320 C321 C322 C323 1-12 1-12 1-12 1-12 1-12

SECTION 5 ELECTRICAL PARTS LIST

4-2. SHASSIS SECTION



Ref.No	o Part No.	<u>Description</u> Remark	
51	7-685-876-09	SCREW +BVTT 3X16 (S)	1
52	7-685-873-09	SCREW +BVTT 3X10 (S)	
53	*4-929-266-01	CUSHION	
54	7-684-024-04	N 4, TYPE 2	
55	7-685-647-79	SCREW +BVTP 3X10 TYPE2 SLIT	
		SCREW +BVTT 3X6 (S)	
57	4-885-984-21	WASHER	
58	7-682-566-09	SCREW +B 4X20	
59	7-685-872-09	SCREW +BVTT 3X8 (S)	1
60	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	-
61	4-933-025-01	(US)COLLAR	
62	7-685-152-19	(US)SCREW +P 3X25 TYPE2 SLIT	
62	7-685-647-79	(EXCEPT FOR US)SCREW +BVTP 3X10 TYPE 2	
		SLIT	-
63	*4-933-015-01	(EXCEPT FOR AE2)PANEL, BACK	
63	*4-933-015-11	(AE2)PANEL, BACK	
64	7-621-849-00	SCREW, TAPPING	
65	* 4-703-079-21	(UK)LABEL, CAUTION (BACK)	1
66	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	1
67	7-621-849-00	(WG)SCREW, TAPPING	1
67	7-685-647-79		1
		N-S	- 1
902	*1-631-657-11	PC BOARD, LED	-
903		PC BOARD, SELECTOR	1
904	*1-631-870-11	PC BOARD, AC-SW	1

SY, SIDE

	Ref.No	Part No.	Description		Remark
			(US)MOUNTED PO		
			(Canadian)MOUNT		
ı			(WG)MOUNTED P		
ı	905	+ A-4333-772-A	(UK)MOUNTED PO	CB, MAIN (F	3)
ı		∗ A-4333-783-A	(AEP)MOUNTED F	CB, MAIN	(B)
ı	906	+ 1-533-183-11	(AEP, UK, WG)HC	OLDER, FUS	E
	906	× 1 -533 -185-11	(US, Canadian)HO	LDER, FUSI	E
ı	907	×1-631-658-11	PC BOARD, SP.TM		
			PC BOARD, JUMPER		
	909	t 1-631 - 655-11	PC BOARD, (A) CLASS	S	
	C320	1-125-568-11	ELECT	12000MF	20% 63V
	C321	1-125-568-11	ELECT	12000MF	20% 63V
	C322	1-125-569-11	ELECT	5600MF	20% 63V
	C323	1-125-569-11	ELECT	5600MF	20% 63V
	F1 <u></u> Λ	. 1-532-350-00	(AEP, UK, WG)FU	ISE, TIME-L	AG T4A
	F1 <u></u> Λ	. 1-532-510-00	(US, Canadian)FU	SE, GLASS	TUBE 8A
l	S1 A	. 1-554-538-00	SWITCH, PUSH (AC P	OWER)(1 KF	EY)
	T1 ♠	.1-449-787-11	(AEP, WG)TRANS	FORMER, P	OWER
	T1 ♠	.1-449-789-11	(UK)TRANSFORME	R, POWER	
	T1 ♠	.1-449-790-11	(US, Canadian)TR	ANSFORMER	R, POWER
	TM301	1-537-246-11	(US, Canadian, AE1, I	JK)TER	MINAL BOARD
				(SPE	AKER)
	TM301	1-537-246-21	(WG)TERMINAL B	OARD (ŠPE/	AKER)
	TM301	1-537-246-31	(AE2)TERMINAL B		
				•	•

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS: MF: μF, PF: μμF.

- RESISTORS

 All resistors are in ohms.
 F: nonflammable

COILS
• MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: µ, for example:
UA...: µA..., UPA...: µPA...,
UPC...: µPC, UPD...: µPD...

The components identified by mark \bigwedge or dotted line with mark \bigwedge are critical for safety.

Replace only with part number

Les composants identifiés par une marque \widehat{M} sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

WG: West Germany

specified.

Ref.No	Part No.	Description		F	Remark	Ref.No	Part No.	Description		ı	Remark
										-	
		(US, Canadian)CO		R		C329		POLYSTYRENE	100PF	5%	50V
		(UK)CORD, POWE				C330	1-161-370-00				
		(AEP, WG)CORD,	POWER					CERAMIC	0.01MF	30%	25V
902		PC BOARD, LED				C351		POLYSTYRENE	68PF	10%	50V
903	*1-631-654-11	PC BOARD, SELECTO	R			C352	1-124-915-11		10 M F	20%	63V
						C353	1-104-276-11	POLYSTYRENE	68PF	10%	50V
904		PC BOARD, AC-SW									
905		(US)MOUNTED PO				C354	1-124-130-00		100MF	20%	63V
905		(Canadian)MOUNT			B)	C355	1-107-276-11		3PF	0.5PF	
905		(WG)MOUNTED P				C358	1-107-206-00		15PF	5%	500V
905	* A-4333-772-A	(UK)MOUNTED PO	CB, MAIN (I	B)		C359	1-124-929-11	ELECT	22 M F	20%	63V
						C360	1-107-159-00	MICA	33PF	5%	500V
905		(AEP)MOUNTED F									
906		(AEP, UK, WG)H				C361	1-107-159-00		33PF	5%	500V
906		(US, Canadian)HO	LDER, FUS	E		C362	1-136-161-00		0.047 M F	5%	50V
907		PC BOARD, SP.TM				C375	1-136-161-00		0.047 M F	5%	50V
908	* 1-631-656-11	PC BOARD, JUMPER				C376	1-130-471-00	(WG)FILM	0.001 M F	5%	50V
						C377	1-109-621-00	(WG)MICA	220PF	5%	500V
909	*1-631-655-11	PC BOARD, (A) CLAS	S								
						C378		(WG)FILM	0.001MF	5%	50V
	CA	PACITOR				C379		POLYSTYRENE	100PF	5%	50V
						C408		(US)ELECT	47 M F	20%	63V
C101	1-104-276-11					C408	1-123-377-00	(EXCEPT FOR US)			
		POLYSTYRENE	68PF	10%	50V			ELECT	470MF	20%	63V
C102	1-124-915-11		10 M F	20%	63V	C409	1-124-918-11	(US)ELECT	47 M F	20%	63V
C151	1-104-276-11	(WG)									
		POLYSTYRENE	68PF	10%	50V	C409	1-123-377-00	(EXCEPT FOR US)			
C205	1-123-369-00		4.7MF	20%	63V	l		ELECT	470MF	20%	63V
C206	1-123-380-00	ELECT	1MF	20%	63V	C410	1-124-918-11	(US)ELECT	47MF	20%	63V
						C410	1-123-377-00	(EXCEPT FOR US)			
C207	1-124-918-11		47MF	20%	63V			ELECT	470 M F	20%	63V
C208	1-130-475-00		0.0022MF	5%	50V	C411	1-124-918-11	(US)ELECT	47MF	20%	63V
C209	1-130-475-00	MYLAR	0.0022MF	5%	50V	C411	1-123-377-00	(EXCEPT FOR US)			
C301	1-104-276-11	POLYSTYRENE	68PF	10%	50V	1		ELECT	470MF	20%	63V
C302	1-124-915-11	ELECT	10 M F	20%	63V						
-						C501 A	. 1-161-741-00	CERAMIC	0.001MF	10%	400V
C303		POLYSTYRENE	68PF	10%	50V						
C304	1-124-130-00		100MF	20%	63V			SOCKET, CONNECTOR			
C305	1-107-276-11	MICA	3PF	0.5PF	500V	CNJ10	* 1-563-381 - 11	SOCKET, CONNECTOR	R 11P		
C306	1-123-369-00	ELECT	4.7 MF	20%	63V						
C307	1-123-369-00	ELECT	4.7 M F	20%	63V	CNP2	* 1 - 565-792-11	PIN, CONNECTOR 2P			
						CNP3	* 1-564-321-00	PIN, CONNECTOR 2P			
C308	1-107-206-00		15PF	5%	500V	CNP4	* 1-564-241-00	PIN, CONNECTOR 4P			
C309	1-124-929-11	ELECT	22 M F	20%	63V	CNP5	* 1-564-241-00	PIN, CONNECTOR 4P			
C310	1-107-159-00	MICA	33PF	5%	500V	CNP8	1-568-203-11	PIN, CONNECTOR (PC	C BOARD) 1	l1P	
C311	1-107-159-00	MICA	33PF	5%	500V						
C312	1-136-161-00	FILM	0.047MF	5%	50V	CNP10	1-568-203-11	PIN, CONNECTOR (PO	C BOARD) 1	l1P	
	1 100 000 00	51 50T									
C313	1-123-369-00		4.7MF	20%	63V	D201	8-719-912-20				
C314	1-123-333-00		100MF	20%	25V	D202	8-719-912-20	DIODE 1SS120			
C315	1-130-487-00		0.022 M F	5%	50V	D203	8-719-303-00				
C317	1-123-330-00		22 M F	20%	16V	D204	8-719-303-00	DIODE SEL2510C			
C318	1-124-919-11	ELECT	220MF	20%	63V	D205	8-719-301-39	DIODE SEL2210S			
0210	1 104 400 11	FLEOT	1145	0007							
C319	1-124-499-11		1MF	20%	100V	D206	8-719-912-20	DIODE 1SS120			
C320	1-125-568-11		12000MF	20%	63V	D207	8-719-912-20	DIODE 1SS120			
C321	1-125-568-11		12000MF	20%	63V	D301	8-719-230-02				
C322	1-125-569-11		5600MF	20%	63V	D302	8-719-230-02				
C323	1-125-569-11	ELECT	5600MF	20%	63V	D303	8-719-230-02	DIODE 30DF2			
0004	1 100 000 00	FU 44									
C324	1-136-601-11		0.01MF	10%	630V	D304	8-719-230-02				
C325	1-136-161-00		0.047MF	5%	50V	D305	8-719-200-77				
C326	1-130-471-00		0.001MF	5%	50V	D306	8-719-200-77	DIODE 10E2N			
C327	1-109-621-00	(WG)MICA	220PF	5%	500V	D307	8-719-200-77	DIODE 10E2N			
C328	1-130-471-00	(WG)FILM	0.001MF	5%	50V	D308	8-719-200-77	DIODE 10E2N			

Ref.N	o Part No.	Description					Ref.No	Part No.	Description				
D309	8-719-200-77					1	R223	1-249-465-1		47K	5%	1/4W	
D310	8-719-200-77	DIODE 10E2N					R224	1-247-721-1	1 CARBON	4.7K	5%	1/4W	
D311 D312	8-719-200-77 8-719-912-20	DIODE 10E2N DIODE 1SS120				1	R225 R227	1-247-744-1 1-247-747-1		270 470	5% 5%	1/2W 1/2W	
D313	8-719-912-20	DIODE 1SS120					R228	1-247-747-1		470	5%	1/2W	
D314	8-719-912-20						R229	1-247-703-1		180	5%	1/4W	
D362 D363	8-719-912-20	DIODE 1SS120 DIODE 1SS120					R230 R231	1-247-747-1 1-247-747-1		470 470	5% 5%	1/2W 1/2W	
D364		DIODE 155120					R232	1-247-725-1		10K	5%	1/4W	
EH1	*1-564-507-11	PLUG. CONNECTO	OR 4P				R301	1-247-713-1	1 CARBON	1K	5%	1/4W	
EH2	*1-564-506-11	PLUG, CONNECTO	OR 3P				R302	1-249-599-1		91K	5%	1/4W	
EH3 EH4		PLUG, CONNECTO PLUG, CONNECTO					R303 R304 A	1-249-797-1 1-247-713-1		620 1K	1% 5%	1/2W 1/4W	F
EH5		PLUG, CONNECTO					R305 🚹	_ . 1-247-707-1	1 CARBON	390	5%	1/4W	F
EH6	* 1-564-508-11	PLUG, CONNECTO	OR 5P				R306 <u></u> A	<u>.</u> 1-219-030-1	1 FUSIBLE	220	5%	1/2W	
F1				TIME	LAC TAA			. 1-217-989-1		4.7	5%	1/2W	
F1		(AEP, UK, WG) (US, Canadian)					R309	. 1-217-989-1 -1-217-611-0	METAL PLATE	4.7 0.1	5%	1/2W 1W	
IC101	8-759-602-83	IC MESSOD					R310	1-217-611-0 1-247-717-1	METAL PLATE	0.1	50/	1W	F
IC101							K3II <u>/r</u>	<u>.</u> 1-24/-/1/-1	I CARBON	2.2K	5%	1/4W	г
IC103							R312	1-249-460-1		15K	5%	1/4W	
IC301 IC302		IC STK3102-3 IC UPC1237HA						<u>\</u> . 1-219-002-1 \ <u>.</u> 1-219-002-1		15 15	5% 5%	1/2W 1/2W	
1 201	. 1 400 070 00	COU AID CODE					R315	1-247-891-0	O CARBON	330K	5%	1/4W	
	*1-420-872-00 *1-420-872-00						R316	1-247-725-1	I CARBON	10K	5%	1/4W	
D 110	1_669_250_11	JACK, PIN 2P (IN	DUT MO	NO)			R317 R318	1-247-887-0 1-247-885-0		220K	5%	1/4W	
7 310.	1-300-230-11	JACK, FIN 2F (IN	roi Mo	NO)			R319	1-247-665-0		180K 18K	5% 5%	1/4W 1/4W	
		(US)THERMIS					R320	1-247-721-1		4.7K	5%	1/4W	
		(US)THERMIS (US)THERMIS					R321	1-249-462-1	I CARBON	22K	5%	1/4W	
Q201	9_720_140_06	TRANSISTOR 2SD	774_24				R323 <u>A</u> R324	1-212-849-0 1-247-727-1		4.7 10	5%	1/4W	F
Q202		TRANSISTOR 250					R326	1-249-850-1		100K	5% 1%	1/2W 1/2W	
Q203		TRANSISTOR 2SA					R327	1-247-708-1		470	5%	1/4W	
Q204 Q301		TRANSISTOR 2SA TRANSISTOR 2SC		_		İ	R330	1-24/-/2/-1	1 (WG)CARBO	JN 10	5%	1/2W	
Q302	9_720_127_53	TRANSISTOR 2SC	2275_D				R331 R351	1-247-727-1 1-247-713-1	1 (WG)CARBO		5%	1/2W 1/4W	
Q303		TRANSISTOR 2SA					R352	1-249-599-1		1K 91K	5% 5%	1/4W	
Q304 Q305		TRANSISTOR 2SC TRANSISTOR 2SA					R353	1-249-797-1		620	1%	1/2W	_
Q306		TRANSISTOR 2SA		,			кээ4 <u>Л</u>	<u>),</u> 1-247-713-1	1 CARBON	1K	5%	1/4W	F
Q351	8-729-203-45	TRANSISTOR 2SC	3423-0					\. 1-247-707-1 \. 1-219-030-1		390 220	5% 5%	1/4W 1/2W	F
Q352	8-729-127-53	TRANSISTOR 2SC	2275-P					<u>1. 1-217-989-1</u>		4.7	5%	1/2 W	
Q353 Q354		TRANSISTOR 2SA TRANSISTOR 2SC						\.1-217-989-1		4.7	5%	1/2W	
Q355		TRANSISTOR 2SA					R359	1-21/-011-0	0 METAL PLATE	0.1		1W	
Q356	8-729-204-91	TRANSISTOR 2SA	1049				R360	1-217-611-0 1-247-717-1	0 METAL PLATE	0.1 2.2K	5%	1W 1/4W	F
Q 550			1043				R362	1-249-460-1	1 CARBON	15K	5%	1/4W	r
	RI	ESISTOR						\. 1-219-002-1 \. 1-219-002-1		15 15	5% 5%	1/2W	
R101		(WG)CARBON		5%	1/4W			_		13	370	1/2 W	
R102 R103	1-247-713-11 1-247-725-11		1K 10K	5% 5%	1/4W 1/4W		R365 R374	1-247-887-0 1-247-727-1		220K 10	5% 5%	1/4 W 1/2 W	
R104	1-249-583-11	CARBON	20K	5%	1/4W		R376	1-249-850-1	1 CARBON	100K	1%	1/2W	
R105	1-247-704-11	CARBON	220	5%	1/4W		R377 R380	1-247-708-1	1 CARBON 1 (WG)CARBO	470	5% 5%	1/4W 1/2W	
R106	1-249-469-11		100K	5%	1/4W						3/0		
R107 R151	1-247-725-11	CARBON (WG)CARBON	10K	5% 5%	1/4W 1/4W		R381		1 (WG)CARB(1 METAL OXIDE	ON 10 3.3K	5% 5%	1/2W 3W	F
R214	1-247-693-11	CARBON	27	5%	1/4W	j		\(\frac{1}{2}\). 1-215-920-1		3.3K	5%	3 W	F
R215	1-247-229-00	CARBON	360	5%	1/2W		RT301	1-237-455-1	1 RES, ADJ, CAF	BON 500			
R216	1-247-229-00		360	5%	1/2W				RES, ADJ, CAR				
R217 R218	1-247-237-00 1-249-462-11		750 22K	5% 5%	1/2W 1/4W		RV301	1-238-656-1	RES, VAR, CAF	RBON 20K	/20K /A	TTENUATO RI	
R219	1-249-465-11	CARBON	47K	5%	1/4W					COOK ESTA	2011 (11	ricito/(ig il)	
R221	1-247-717-11	CARBON	2.2K	5%	1/4W		RY301 RY302	1-515-676-1 1-515-676-1					
R222	1-247-237-00	CARBON	750	5%	1/2W	1							
								Note: The com	oonents identi-	Note:	ทกกรจะ	nts identi f iés	DC-
								fied by m	nark ∧ or dot-	une ma	arque /	<u>riti</u> sont c r iti	ques
								ted line	with mark 1	pour la	sécuri	té. acer que poar	
								Replace of	only with part	pièce p		le numéro s	
						15		number s	Deciried.	fié.			

S1	Ref.No Part No.	Description	Remark	Ref.No	Part No.	Description	Remark
T1	S101 1-572-010-11	SWITCH, SLIDE (INPUT OPERATION					
4 300 001 02 11001100110011	T1	(UK)TRANSFORMER, POWER (US, Canadian)TRANSFORMER, (US, Canadian, AE1, UK)TERM (SPEA (WG)TERMINAL BOARD (SPEAK	POWER INAL BOARD KER) (ER)		3-703-450-01 3-750-794-11 3-750-794-41 4-847-802-00 *4-933-001-01	(US)INSTRUCTION (US, Canadian, AE1, UK TION (ENGLISH, FRENCH, (AE2, WG)MANUAL, I DUTCH, SWEDISH, ITALIA SCREW CUSHION)MANUAL, INSTRUC- SPANISH, PORTUGUESE) INSTRUCTION (GERMAN,
					7 333 004 01	MBITIBONE OAKTON	

Note:
The components identified by mark A or dotted line with mark A are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

Sony Corporation Audio Group

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